LITTLE MUHEJI SCHOOL

SET XXV EXAMINATION 2020

PRIMARY SEVEN MATHEMATICS

NAME: _____

CLASS: _____ **STREAM:** _____

Section A.

1. Simplify: $\frac{4}{7}+\frac{4}{7}=$

2. Write **XCVI** in Hindu Arabic numerals.

3. Simplify: 3k + 4y – 3k -5y.

4. Change 840m to km.

5. Using a pair of compasses construct an angle of 75°.

6. Find the square root of $3\frac{1}{16}$.

7. Kapere bought a radio for sh 60,000 and sold it at a loss of sh.15000. At how much did Kapere sell the radio?

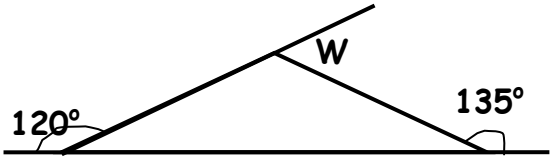
8. Express 20cm as a percentage of 1m

9. Find the next number in its sequence.

   3, 8, 6, 11, 9, _____, _____

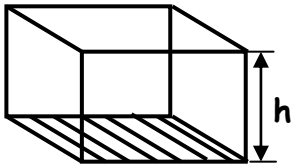
10. Express 2:30 pm in 24 hour clock system.

11. Find the size of angle **W**.



12. Mugaga covered 240km in 2 hrs 30mins. At what speed was he moving?

13. The volume of the figure below is $72cm^3$. If its base area is $36cm^2$. Find its height.



14. What number has been expanded to give;
$(8 \times 10^{-4}) + (7 \times 10^{3}) + (4 \times 10^{1})$

15. Round off 86955 to the nearest thousands.

16. Find the range of 3,-4, 5, -6 and 0.

17. Find the unknown base;
$31_{W} = 13_{ten}$

18. Simplify: $^{+}4 - {}^{+}6$.

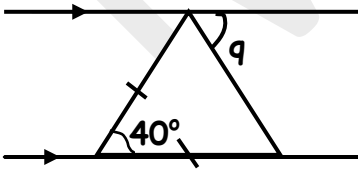
19. Set R has 16 subsets. Find n(R).

20. Find the mean of 3y,0,2y, 7 and 3

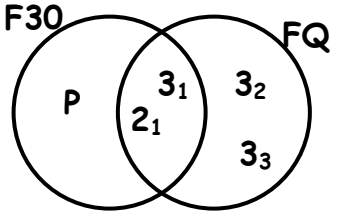
SECTION B

21. a) (X + 40°) and 30° are complementary angles. Find the value of **X**. (***3 marks***)

b) Find the size of angle ***Q***. (***2 marks***)



22. **Below is a Venn diagram**, use it to answer questions that follow.



a) Find the value of P. (***1 mark***)

b) Find the value of Q. (***1 mark***)

c) Work out the L.C.M of 30 and Q. (***2 marks***)

23. a) In a basket, there are 11 red balls, 6 blue balls and 9 pink balls.
Find the probability of picking a ball which is;
i) blue (***2 marks***) ii) red (***2 marks***) iii) pink(***2 marks***)

24. The circumference of the circle is 132cm.
a) Find its radius. (***3 marks***) b) Work out its area. (***2 marks***)

25. The mean of X, X-2, 6, 5 and 4 is 9.
a)Find the value of X. (***3 marks***)

b)Find the range of the number. (***2 marks***)

26. a) Change 32_{five} to base two. (***3 marks***)

b) Subtract: $4\ 0\ 2_{five}$ (***2 marks***)

$$\begin{array}{r} 4\ 0\ 2_{five} \\ -\ 4\ 4_{five} \\ \hline \\ \hline \end{array}$$

27. Candidates scored the following marks;
50, 75, 60, 75, 80, 60, 75, 90, 80 and 75. (***3 marks***)

a) Represent the information above on the table below.

Marks scored	60	____	80	50
No. of pupils	____	4	____	____

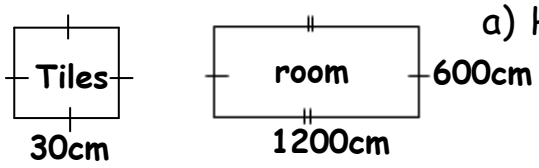
b) Calculate the average mark. (***2 marks***)

28. A trader borrowed sh.1,200,000 from the bank which offers an interest rate of 20% p.a for 2 years.

a) How much interest did he pay? (***3 marks***)

b) Work out the amount of money he will take back. (***2 marks***)

29. Tiles were put in a rectangular room as shown below.

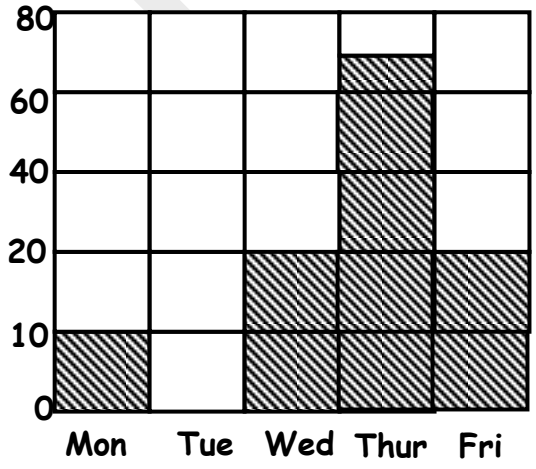


a) How many tiles were put in the room? (***4 marks***)

b) If each tile costs sh13,500. How much was needed to buy the tiles? (***1 mark***)

30. Using a pair of compasses, a ruler and a sharp pencil only, construct a triangle PQR where $\angle P=60^{\circ}$, $\angle Q=45^{\circ}$ and $\overline{PQ}$ =8cm. (***5 marks***)

31. The graph below shows the number of pupils who were absent in a certain week in a P.4 class of 65 learners.

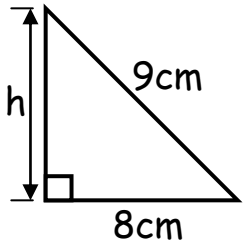


a) How many pupils were present on Wednesday? (***1 mark***)

b) On which day was the highest number of pupils present? (***2 marks***)

c) Work out the mean attendance of the class in the week. (***2 marks***)

32. The area of the figure below is $48cm^2$.



a) Find its height (***3 marks***)

b) Work out its perimeter. (***2 marks***)

End